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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
10/053,818	01/22/2002	Yinon Degani	S1	4719	
7590 04/13/2004			EXAMINER		
Law Firm of Peter V.D. Wilde			NGUYEN, VINH P		
301 East Landing Williamsburg, VA 23185			ART UNIT	PAPER NUMBER	
			2829		
			DATE MAIL ED: 04/13/2004		

Please find below and/or attached an Office communication concerning this application or proceeding.

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—i———		Application No.	Applicant(s)			
Office Action Summary		10/053,818	DEGANI ET AL.			
		Examiner	Art Unit			
		VINH P NGUYEN	2829	l .		
Period fe	The MAILING DATE of this communication ap	pears on the cover sheet with the o	correspondence ad	dress		
A SH THE - Exte after - If the - If NO - Failu Any	IORTENED STATUTORY PERIOD FOR REPL MAILING DATE OF THIS COMMUNICATION. Insions of time may be available under the provisions of 37 CFR 1. SIX (6) MONTHS from the mailing date of this communication. In period for reply specified above is less than thirty (30) days, a reput period for reply is specified above, the maximum statutory period ure to reply within the set or extended period for reply will, by statut reply received by the Office later than three months after the mailing led patent term adjustment. See 37 CFR 1.704(b).	136(a). In no event, however, may a reply be tir oly within the statutory minimum of thirty (30) day will apply and will expire SIX (6) MONTHS from e, cause the application to become ABANDONE	nely filed  s will be considered timel the mailing date of this c C (35 U.S.C. § 133).			
Status						
1)⊠	Responsive to communication(s) filed on 11/2	<u>29/04</u> .				
2a)⊠	This action is <b>FINAL</b> . 2b) Thi	s action is non-final.				
3)[						
	closed in accordance with the practice under	Ex parte Quayle, 1935 C.D. 11, 4	53 O.G. 213.			
Disposit	ion of Claims			1		
5)⊠ 6)⊠ 7)□	Claim(s) <u>1-19</u> is/are pending in the application 4a) Of the above claim(s) <u>1-5,10-12,17 and 18</u> Claim(s) <u>6-9</u> is/are allowed. Claim(s) <u>13-16 and 19</u> is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or	is/are withdrawn from considerat	ion.			
Applicat	ion Papers					
9)[	The specification is objected to by the Examin-	er.				
10)[	☐ The drawing(s) filed on is/are: a)☐ accepted or b)☐ objected to by the Examiner.					
	Applicant may not request that any objection to the	e drawing(s) be held in abeyance. Se	e 37 CFR 1.85(a).			
	Replacement drawing sheet(s) including the correct					
11)	The oath or declaration is objected to by the E	xaminer. Note the attached Office	Action or form P	ГО-152.		
Priority	under 35 U.S.C. § 119					
a)	Acknowledgment is made of a claim for foreign All b) Some * c) None of:  1. Certified copies of the priority document 2. Certified copies of the priority document 3. Copies of the certified copies of the priority document application from the International Bureation and Copies of the attached detailed Office action for a list	nts have been received. Its have been received in Applicat Ority documents have been receive Ority (PCT Rule 17.2(a)).	ion No ed in this National	Stage		
Attachmer	• •					
	ce of References Cited (PTO-892) ce of Draftsperson's Patent Drawing Review (PTO-948)	4) Interview Summary Paper No(s)/Mail D				
3) 🔲 Info	mation Disclosure Statement(s) (PTO-1449 or PTO/SB/08 or No(s)/Mail Date			O-152)		

1. Claims 13-16 and 19 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.

In claim 13, it is unclear how the recited steps are interrelated and associated with "electrically comparing electrical elements on the IC wafer with electrical components in a reference circuit".

In claim 19, it is unclear whether the fully functional test of the analog function of the analog IC chips at a frequency above 100 MHZ or the type of analog chips at a frequency above 100 MHZ.

The dependent claims not specifically address share the same indefiniteness as they depend from rejected base claims.

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claims 13 and 15 (insofar as understood) are rejected under 35 U.S.C. 102(b) as being anticipated by Chong (pat # 5,973,504).

As to claim 13, Chong discloses a programmable high density electronic testing device as shown in figure # 2 having step of providing a probe membrane (42) on a support (38) with an

Application/Control Number: 10/053,818

Art Unit: 2829

opening, a plurality of probe contact array (43) located at the center of the probe membrane, reference electrical circuit components (44a,44b), mounting a wafer under test (12) on a platform (33), moving the center portion of the probe membrane so that the probe contact arrays (43) comes into contact with the wafer under test (12) and then pass electrical test signals between I/Os on the wafer under test and the reference circuit (44a,44b).

As to claim 15, it appears that the electrical components (44a,44b) is a part of an IC chip (45).

- 4. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 5. Claim 19 is rejected under 35 U.S.C. 103(a) as being unpatentable over Chong (pat # 5,973,504) in view of Sano (Pat # 5,703,494)

As to claim 19, Chong discloses a test apparatus for testing an IC wafer (12) with analog IC chips having step of probing the analog chips with an array of test contacts (43), performing a fully functional test (30) of the analog IC chips through the probe card (14) and the test controller (20) as shown in figure 1. However, Chong does not mention about the testing chips at

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Page 3

Application/Control Number: 10/053,818

Page 4

Art Unit: 2829

a frequency above 100 MHZ. However, Sano teach that it would have been well known to test the chip on the wafer from 10 Mhz to about 100 MHZ or higher than this range (see column 1, lines 12-18). It would have been well known for one of ordinary skill in the art to provide the teaching of Sano by testing chips at frequency above 100 MHZ to the device of Chong since now a day, the chips are fabricated at high speed (above 100 MHz).

- 6. Claims 6-9 are allowable since the prior art does not disclosean IC test apparatus having at least one reference circuit component such as an LC circuit attached to the polymer membrane and located adjacent to the probe contact array.
- 7. Applicant's arguments with respect to claims 6-9,13-16 and 19 filed on 01/29/04 have been considered but are most in view of the new ground(s) of rejection.
- 8. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37

Application/Control Number: 10/053,818

Art Unit: 2829

Page 5

CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event,

however, will the statutory period for reply expire later than SIX MONTHS from the date of this

final action.

9. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to VINH P NGUYEN whose telephone number is (521)272-1964.

The fax phone number for the organization where this application or proceeding is assigned is

703-872-9306.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR

system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

VINH P NŒUÝEN

**Primary Examiner** 

Art Unit 2829

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